2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-(2-Acetyloxyethoxy)etho
acetate

Other names: Undecaethylene glycol, diacetate

34-Oxo-3,6,9,12,15,18,21,24,27,30,33-undecaoxapentatriacont-1-yl acetate

Inchi: InChI=1S/C26H50O14/c1-25(27)39-23-21-37-19-17-35-15-13-33-11-9-31-7-5-29-3-4-30-

InchiKey: JXSCXODUBAYSII-UHFFFAOYSA-N

Formula: C26H50O14

SMILES: CC(=O)OCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOC(C)=O

Mol. weight [g/mol]: 586.67

Physical Properties

Property code	Value	Unit	Source
gf	-1349.80	kJ/mol	Joback Method
hf	-2391.77	kJ/mol	Joback Method
hfus	80.55	kJ/mol	Joback Method
hvap	115.88	kJ/mol	Joback Method
log10ws	0.70		Crippen Method
logp	0.279		Crippen Method
mcvol	450.780	ml/mol	McGowan Method
pc	695.45	kPa	Joback Method
rinpol	3688.00		NIST Webbook
rinpol	3692.00		NIST Webbook
rinpol	3682.00		NIST Webbook
rinpol	3687.00		NIST Webbook
rinpol	3682.00		NIST Webbook
rinpol	3685.00		NIST Webbook
rinpol	3695.00		NIST Webbook
rinpol	3695.00		NIST Webbook
rinpol	3690.00		NIST Webbook
rinpol	3690.00		NIST Webbook
rinpol	3685.00		NIST Webbook
rinpol	3690.00		NIST Webbook
rinpol	3692.00		NIST Webbook
rinpol	3691.00		NIST Webbook
rinpol	3713.50		NIST Webbook
rinpol	3682.00		NIST Webbook
tb	1171.06	K	Joback Method
tc	1541.60	K	Joback Method
tf	749.40	K	Joback Method

vc	1.720	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1607.98	J/mol×K	1171.06	Joback Method
cpg	1606.26	J/mol×K	1232.82	Joback Method
cpg	1593.73	J/mol×K	1294.57	Joback Method
cpg	1569.85	J/mol×K	1356.33	Joback Method
cpg	1534.10	J/mol×K	1418.09	Joback Method
cpg	1485.93	J/mol×K	1479.85	Joback Method
cpg	1424.82	J/mol×K	1541.60	Joback Method
dvisc	0.0000084	Pa×s	749.40	Joback Method
dvisc	0.0000049	Pa×s	819.68	Joback Method
dvisc	0.0000031	Pa×s	889.95	Joback Method
dvisc	0.0000021	Pa×s	960.23	Joback Method
dvisc	0.0000015	Pa×s	1030.51	Joback Method
dvisc	0.0000011	Pa×s	1100.78	Joback Method
dvisc	0.0000009	Pa×s	1171.06	Joback Method

Sources

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method: https://en.wikipedia.org/wiki/Joback_method
McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=U351903&Units=SI

Legend

cpg: Ideal gas heat capacity
dvisc: Dynamic viscosity
gf: Standard Gibbs free energy of formation
hf: Enthalpy of formation at standard conditions
hfus: Enthalpy of fusion at standard conditions

hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume